

AGE (millions of years)	FORMATION (thickness in feet)	SYMBOL	LITHOLOGY
QUATERNARY (0-1.8)	100 units on map	Q	Unconsolidated material & volcanic rocks
TERTIARY (1.8-65)	3 map units	T	Igneous & sedimentary rocks
CRETACEOUS (65-144)	Dakota? (100)	Kdm	Sandstone, tan, fine-grained, fossil plants and pelecypods.
JURASSIC (144-206)	Carmel (850)	Jc	Limestone, tan & gray; sandstone & siltstone, banded pink & gray; gypsum; sandstone, fine-grained
	Temple Cap (0-260)	Jt	Sandstone, gray & tan, crossbedded
	Navajo Sst. (2000 max.)	Jn	Sandstone, white, gray, yellow, tan, pink, medium to fine-grained, crossbedded
	Kayenta (600)	Jk	Mudstone, reddish brown, siltstone, & sandstone. Dinosaur trackways common.
	Moenave (490)	Jm	Sandstone, mauve, overlying reddish-brown siltstone & mudstone
TRIASSIC (206-248)	Chinle (400)	TRc	Shale, mauve, gray, white, weathered to clay where exposed, with sandstone and limestone lenses.
	Moenkopi (1800)	TRm	Siltstone & mudstone, red & red-brown, w/ many gray gypsiferous shale beds
PERMIAN (248-290)	Kaibab (incomplete)	Pk	Limestone, yellowish gray, massive w/ chert & marine fossils.
	Toroweap (350-400)	Pt	Limestone, cherty limestone, & gypsiferous siltstone










Key					
	Unconsolidated sediments		Sandstone		Gypsum
	Igneous rocks		Conglomerate		High-angle cross-bedding
	Shale		Cherty Limestone		Regional Unconformity
	Siltstone		Limestone		

Figure 5. Stratigraphic column for Zion National Park.